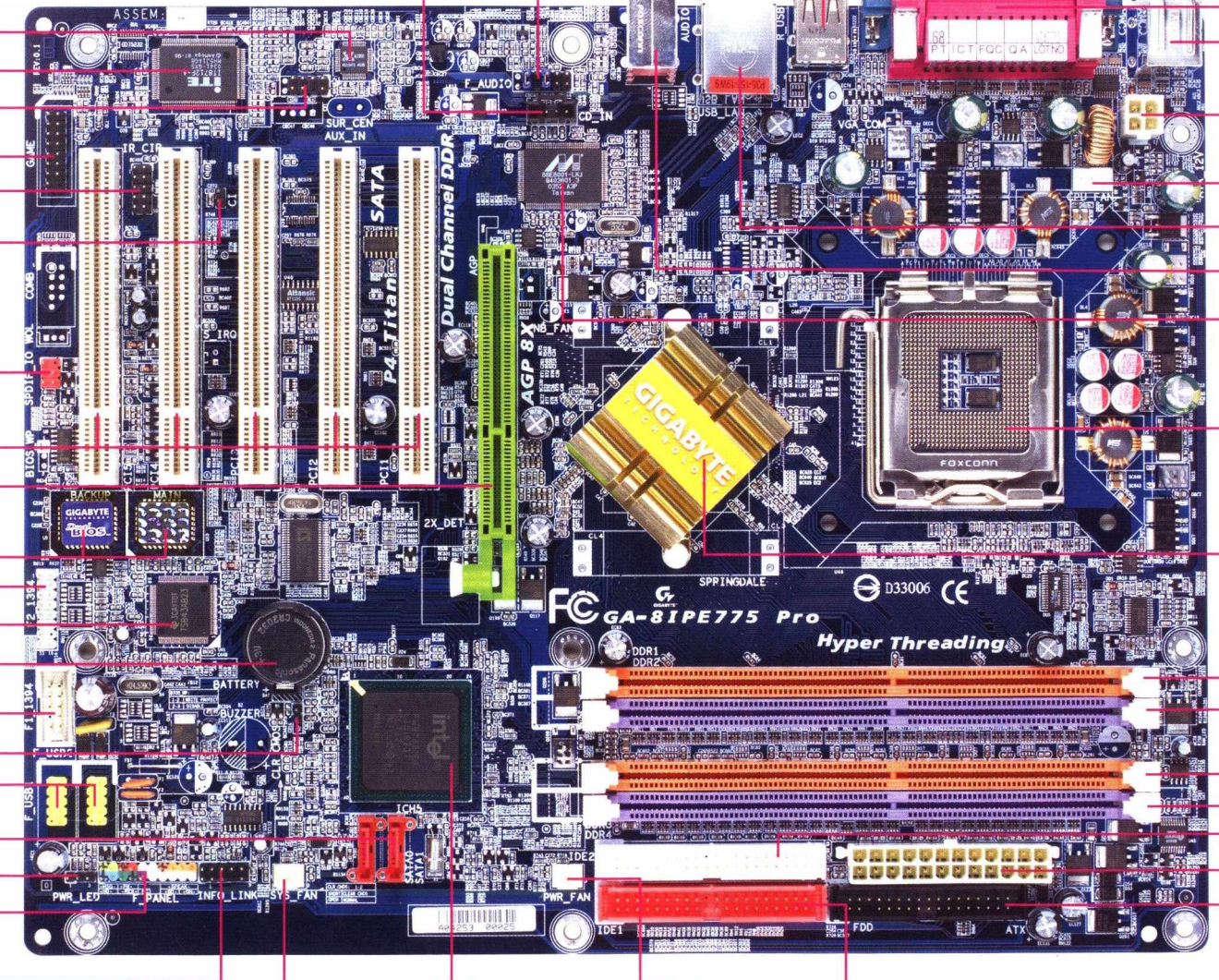
Quick PC Installation Guide

Gigabyte Pentium® 4 Titan Series GA-8IPE775 Series

- ① Only for GA-8IPE775 Pro
- ② Only for GA-8IPE775-G

GIGABYTE®



Note: This picture is for reference only and may not reflect your motherboard exactly.

Rev. 1001
***12QE-8IPE775-1001

Warning!
Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, please follow some precautions before you set up your computer.

1 Turn off the AC power and unplug your computer.
2 Hold motherboard by the edges and try not touch the metal objects.
3 Use a grounded wrist strap before handling computer components and IC chips (such as CPU and RAM).
4 Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.
5 Ensure the ATX power supply is switched off before you remove the ATX power connector from the motherboard.

Note:
1 The peripheral devices contained herein depend on your actual system configuration.
2 Third-party trademarks and names are the properties of their respective owners.
3 The information contained herein relevant to software and hardware are for reference only and in accordance with actual system configuration. All information are subject to change without notice.

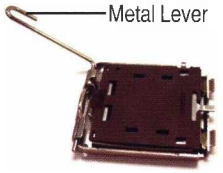
Quick PC Installation Guide

Please make sure all the accessories are included.

Step1 : Installing The CPU
Step2 : Installing The CPU Cooling Fan
Step3 : Installing A DIMM Module
Step4 : Chassis Introduction
Step5 : Removing the Side Panel Board
Step6 : Installing The Motherboard
Step7 : Installing The Power Supply
Step8 : Installing A 5.25"/3.5" Device
Step9 : Connecting Power and Cables
Step10 : Installing Expansion Cards
Step11 : Installing The Side Panel Board
Step12 : Installing Peripherals and Power
Step13 : Power On Screen
Step14 : BIOS Setup
Step15 : Installing drivers
Step16 : Troubleshooting

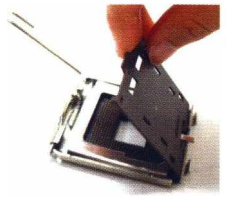
STEP 1 : Installing CPU

1-1 Pull up the CPU socket lever and up to a 90-degree angle.
1-2 Notice the small gold colored triangle located on the edge of the CPU socket. Align the indented corner of the CPU with the triangle and gently insert the CPU into position.
1-3 Make sure the CPU has properly installed . Then press the CPU evenly by hand, and pull down the lever lowered to lock the CPU in place.

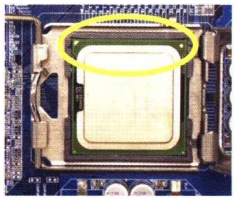


(1)

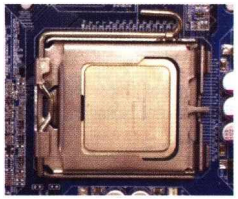
Gently lift the metal lever located on the CPU socket to the upright position.


(2)

Remove the plastic covering on the CPU socket.


(3)

Notice the small gold colored triangle located on the edge of the CPU socket. Align the indented corner of the CPU with the triangle and gently insert the CPU into position.


(4)

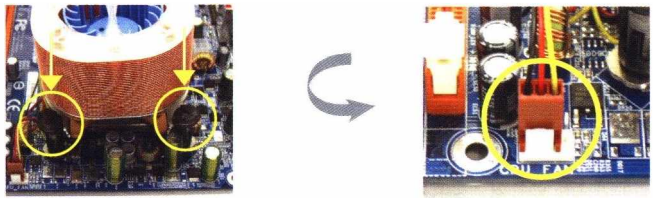
Once the CPU is properly inserted, please replace the plastic covering and push the metal lever back into its original position.

FYI footnote:
If you do not match the CPU socket Pin 1 and CPU cut edge, it will cause improper installation, and may damage the CPU.

We recommend you to apply the thermal tape to provide better heat conduction between your CPU and heatsink.
(The CPU cooling fan might stick to the CPU due to the hardening of the thermal paste. During this condition if you try to remove the cooling fan, you might pull the processor out of the CPU socket alone with the cooling fan, and might damage the processor. To avoid this from happening, we suggest you to either use thermal tape instead of thermal paste, or remove the cooling fan with extreme caution.)

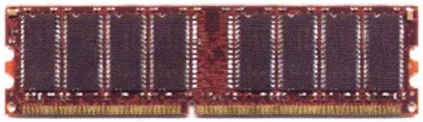
STEP 2 : Installing The CPU Cooling Fan

2-1 Please use an Intel approved cooling fan .
2-2 Make sure the CPU fan is plugged to the CPU retention module in the correct direction.
2-3 Make sure the CPU fan power cable is connected to CPU_FAN connector.
(Please refer to your CPU fan user's manual for more detailed installation procedure.)



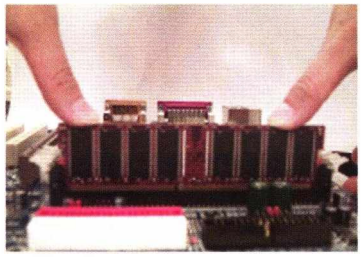
CPU Cooling Fan Installation:
Beware: Please check that the heat sink is in good contact with the CPU before you turn on your system. The poor contact will cause over heat, and might cause damage to your processor!

STEP 3 : Installing A DIMM Module



DDR RAM

The motherboard has 4 dual inline memory module (DIMM) sockets. The BIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM Slot. The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets.



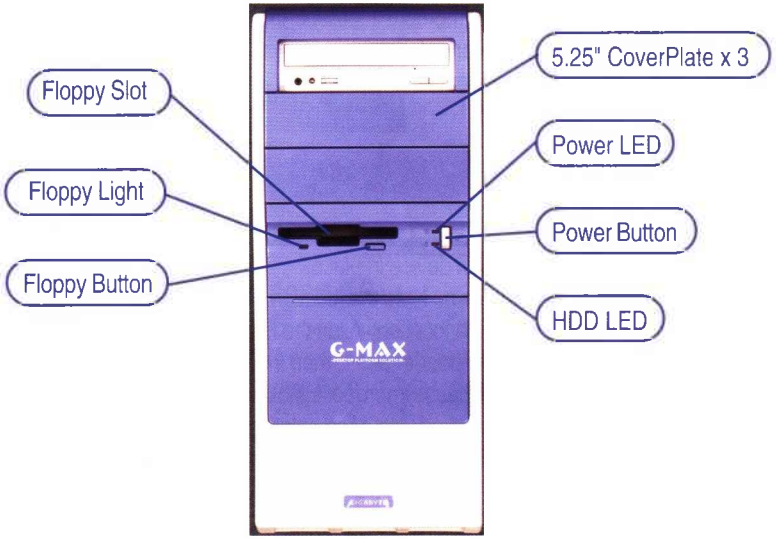
3-1 Open the two whitelocking levers on the DIMM socket.
3-2 Align the DIMM to the DIMMsocket. Press firmly down on the DIMM.
3-3 Push each lever locking towards the DIMM.

FYI footnote:
Please note that the DIMM module can only fit in one direction due to the two Keyed notches. The wrong orientation will cause improper installation, and may damage the DIMM socket.

STEP 4 : Chassis Introduction

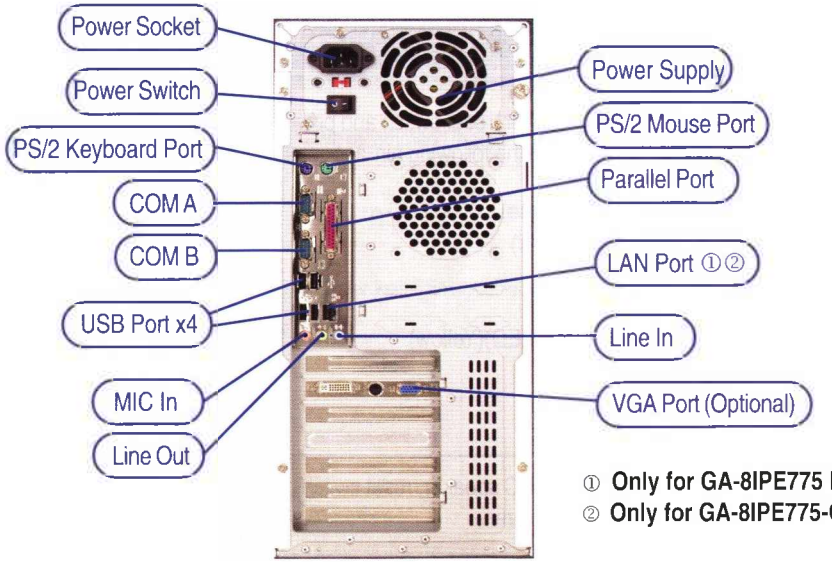
4-1 Front panel introduction

(The case design is different from manufacturer to manufacturer. Please install in according to your case user's manual. This installation guide is for reference only.)



4-2 Rear panel introduction

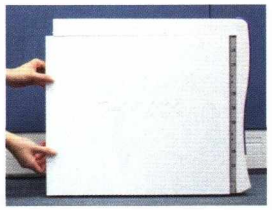
(Please move to step 7 if your power supply is not already installed in the case)



① **Only for GA-8IPE775 Pro**
② **Only for GA-8IPE775-G**

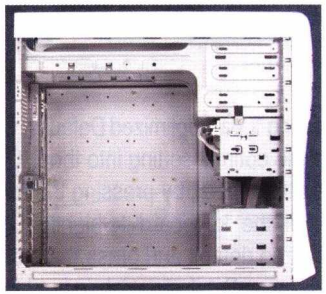
STEP 5 : Removing The Side Panel Board

5-1 Undo the screws from chassis.
5-2 Pull out the PC's metal chassis side panel.
5-3 Be careful not to cut yourself by the panel.



STEP 6 : Installing The Motherboard

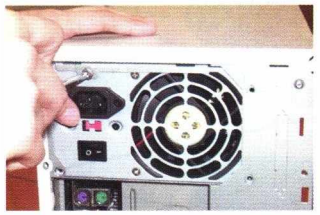
6-1 According to an actual system configuration, please discharge the power supply from your motherboard if needed.
6-2 When the risers are in position, place the motherboard over the risers so that the mounting holes and the risers aligned. Fasten the Motherboard to the risers with the provided screws. (Motherboard mounting holes must line up with the cases mounting holes accordingly.)
6-3 Affix your new motherboard in the case properly.

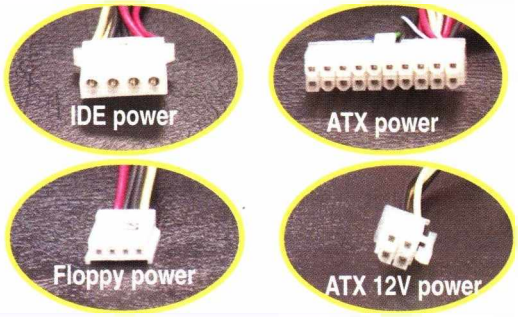


FYI footnote:
According to your actual requirements, the risers may be used to keep the motherboard from touching the metal computer case and causing a short.

STEP 7 : Installing The Power Supply

7-1 Please hook each connector to the associated position.
7-2 Gently fasten power supply to your PC's chassis with screws.

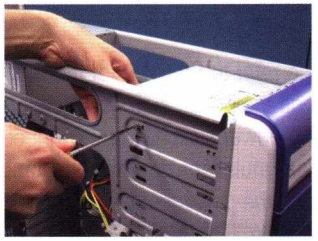


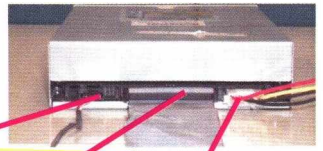


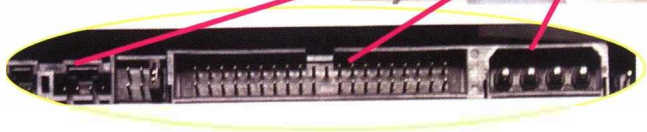
STEP 8 : Installing A 5.25" / 3.5" Device

8-1 CD-ROM(DVD-ROM) drive Installation

8-1-1 Move 5.25" CoverPlate .
8-1-2 Note the location of the CD-ROM(DVD-ROM) drive controller header pins.
8-1-3 Screw the CD-ROM Device in place.
8-1-4 Orient the IDE ribbon cable as shown. Note the location of the red stripe on the cable indicating its Pin1 location. Align up the Pin1 of the ribbon cable to the controller header pin-1, then insert firmly.
Wrong orientation will cause improper installation. (Pin1 of cable is normally marked with a red colored stripe.)
8-1-5 Connect the CD-ROM(DVD-ROM) power cable to the Power connector.
8-1-6 Connect the CD_IN audio cable to the CD-ROM CD audio connector.

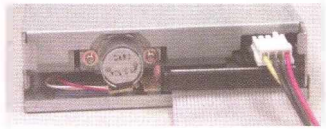




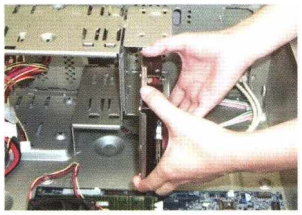


8-2 Floppy disk drive Installation

8-2-1 Move 3.5" CoverPlate
8-2-2 Note the location of the floppy disk drive controller header pins.
8-2-3 Screw the FLOPPY disk device in place.
8-2-4 Orient the floppy disk cable as shown. Note the location of the red stripe on the cable indicating its Pin1 location. Align up the Pin1 of the ribbon cable to the controller header pin-1 then insert firmly. Wrong orientation will cause improper installation.
(Pin1 of cable is normally marked with a red colored stripe.)
8-2-5 Connect the floppy disk power cable to the power connector.



8-3 Hard Disk Drive Installation



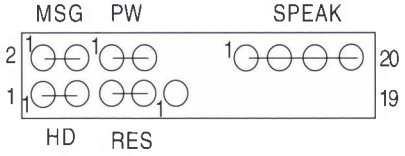
8-3-1 Note the location of the hard disk drive controller header pins.
8-3-2 Screw the HARD DRIVE disk device in place..
8-3-3 Orient the IDE cable as shown. Note the location of the red stripe on the cable indicating its Pin1 location. Align the Pin1 of the ribbon cable to the controller header pin-1, then insert firmly. Wrong orientation will cause improper installation.
(Pin1 of cable is normally marked with a red colored stripe.)
8-3-4 Connect the IDE power cable to the power connector.

FYI footnote: Please note, install the IDE cable in advance.

STEP 9 : Connecting Power and Cable

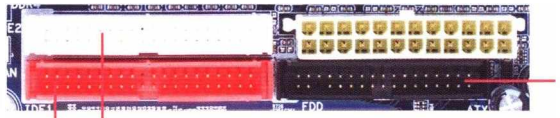
9-1 Connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the front panel jumper according to the following pin assignment.

HD(IDE Hard Disk Activity LED)(Blue)
SPEAK(Speaker Connector)(Amber)
RES(Reset Switch)(Green)
PW(Soft Power Connector)(Red)
MSG(Message LED/Power/Sleep LED)(Yellow)

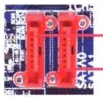


Please note, the power LED, PC speaker, reset switch and power switch. Pin assignments differ from manufacturer to manufacturer.

9-2 Carefully connect all cables, leads, and peripherals to the motherboard.



Pin1 of ribbon cable is normally marked with a red colored stripe.

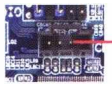


Important Notice:
1. Please connect first harddisk to IDE1 and connect CDROM to IDE2.
2. If you wish to use SATA, please use it in unity with BIOS. Then, install the correct driver to have proper operation.

9-3 Connect the ATX power supply cable to the motherboard ATX power connector.

9-4 Connect the ATX12V power supply cable to the motherboard ATX_12V power connector. (Note: system will not power up if this is not connected.)

9-5 Connect CD_IN connector.



9-6 This motherboard provides A fan failure alarm and CPU temperature alarm if your computer chassis includes a system fan, and/ or a sensor cable from your power supply. Please connet to the SYS_FAN and /or PWR_FAN ① connectors.

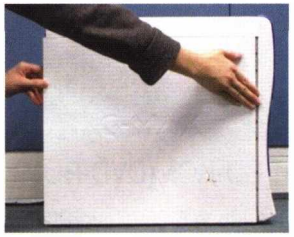
① **Only for GA-8IPE775 Pro**

STEP 10 : Installing Expansion Cards

10-1 Discharge the rear add-on card panel. (Be careful not to scrape the motherboard surface and components.)
10-2 Plug in add-on cards. Fasten the add-on card panel to the metal computer case with the provided screws.

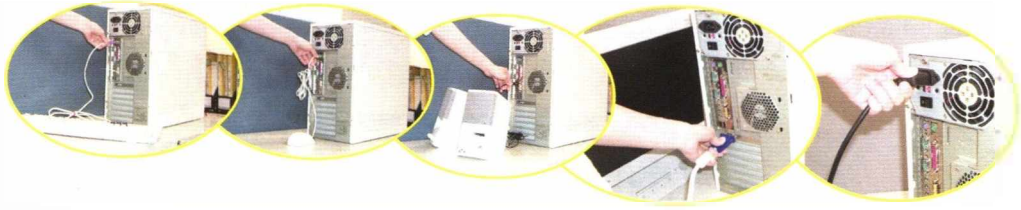
STEP 11 : Installing The Side Panel Board

11-1 Push the chassis forward and close the front panel.
11-2 Fasten the computer case screws.

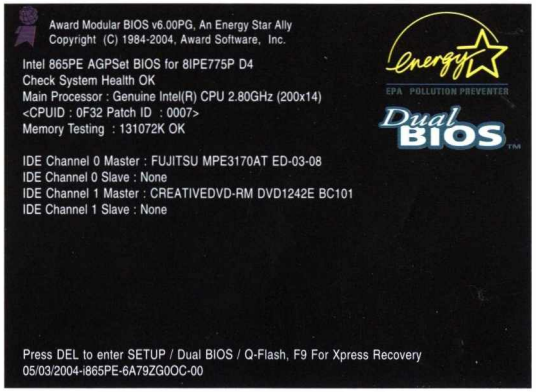


STEP 12 : Installing Peripherals and Power

12-1 Please refer to Step 4-2 for more details about how to connect the external peripherals to the PC.
12-2 Turn off the power supply. (Please do not connect the power cable to AC if your computer doesn't have a power switch.) Next connect the power cable to the system and make a final inspection .
** Congratulations you have accomplished the hardware installation!
12-3 Turn on the power supply or connect the power cable to the power outlet. Continue with the software installation.



STEP 13 : Power On Screen

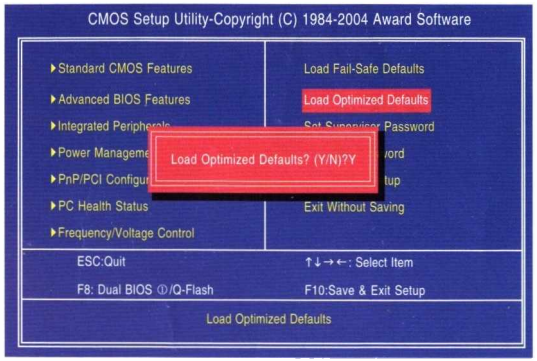

Award Modular BIOS v6.00PG, An Energy Star Ally
Copyright (C) 1984-2004, Award Software, Inc.
Intel 865PE AGPSet BIOS for 8IPE775P D4
Check System Health OK
Main Processor : Genuine Intel(R) CPU 2.80GHz (200x14)
<CPUID : 0F32 Patch ID : 0007>
Memory Testing : 131072K OK
IDE Channel 0 Master : FUJITSU MPE3170AT ED-03-08
IDE Channel 0 Slave : None
IDE Channel 1 Master : CREATIVEDVD-RM DVD1242E BC101
IDE Channel 1 Slave : None
Press DEL to enter SETUP / Dual BIOS / Q-Flash, F9 For Xpress Recovery
05/03/2004-i865PE-6A79ZG0OC-00

You can see the following information from the boot up screen:
1.AWARD BIOS Included
2.Model Name : 8IPE775 Pro,
BIOS version : D4
3.CPU Frequency : 2.80GHz(200x14)
4.Memory Size : 128MB
5.HD : FUJITSU MPE3170AT
6.CD-ROM : CREATIVE DVD-ROM

You may refer to the above information relevant to your system configuration indicating that the IDE device is working properly.Or if the IDE is undetected, the system will not boot in to HD. During POST (Power On Self Test), pressing <Del> immediately enters the AWARD BIOS CMOS SETUP. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen.

STEP 14 : BIOS Setup (I)

14-1 Load Optimized Default

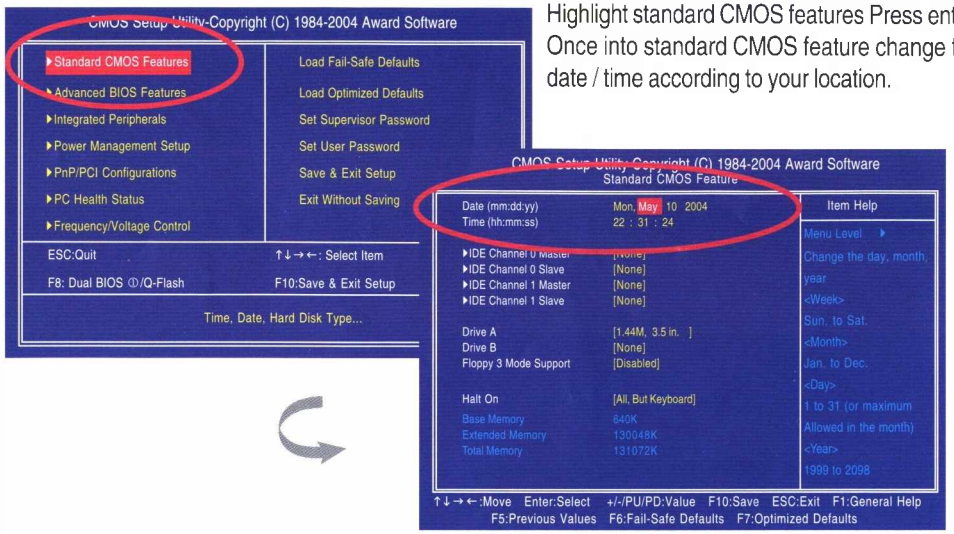


Selecting "Load Optimized Defaults" will load the optimal setting into the BIOS. Move the cursor, by pressing the arrow keys on the keyboard ,to highlight the optimized default and press the enter key. Then press "Y" if you wish to load this option.

① **Only for GA-8IPE775 Pro**

STEP 14 : BIOS Setup (II)

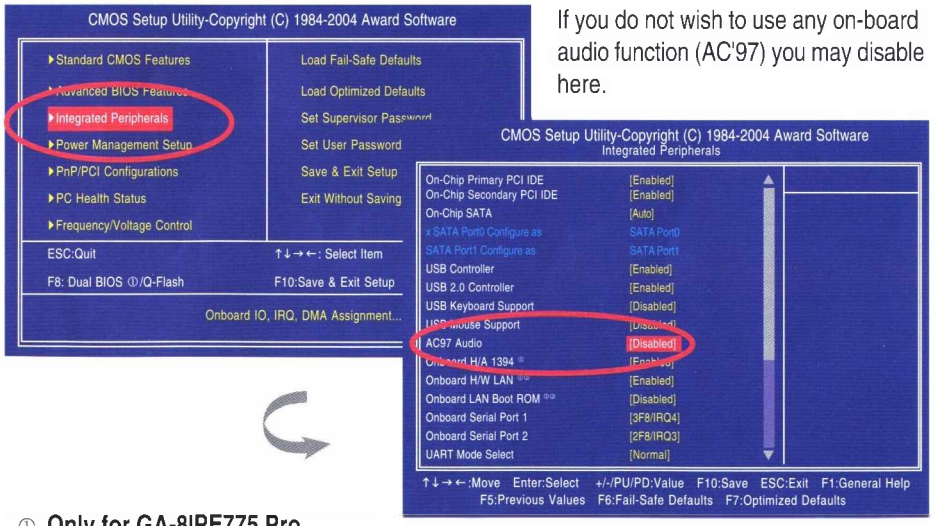
14-2 Setting date and time.


CMOS Setup Utility-Copyright (C) 1984-2004 Award Software
Standard CMOS Features
Advanced BIOS Features
Integrated Peripherals
Power Management Setup
PnP/PCI Configurations
PC Health Status
Frequency/Voltage Control
Load Fail-Safe Defaults
Load Optimized Defaults
Set Supervisor Password
Set User Password
Save & Exit Setup
Exit Without Saving
ESC:Quit
↑↓→←: Select Item
F8: Dual BIOS ①/Q-Flash
F10:Save & Exit Setup
Time, Date, Hard Disk Type...
CMOS Setup Utility-Copyright (C) 1984-2004 Award Software
Standard CMOS Feature
Date (mm:dd:yy) Mon, May 10 2004
Time (hh:mm:ss) 22 : 31 : 24
IDE Channel 0 Slave [None]
IDE Channel 1 Master [None]
IDE Channel 1 Slave [None]
Drive A [1.44M, 3.5 in.]
Drive B [None]
Floppy 3 Mode Support [Disabled]
Halt On [All, But Keyboard]
Base Memory 640K
Extended Memory 130048K
Total Memory 131072K
Item Help
Menu Level
Change the day, month, year
<Week>
Sun. to Sat.
<Month>
Jan. to Dec.
<Day>
1 to 31 (or maximum Allowed in the month)
<Year>
1999 to 2098
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

Highlight standard CMOS features Press enter; Once into standard CMOS feature change the date / time according to your location.

14-3 Disable onboard audio function.

(Please skip this step if you would like to use on-board AC'97 audio.)



If you do not wish to use any on-board audio function (AC'97) you may disable here.

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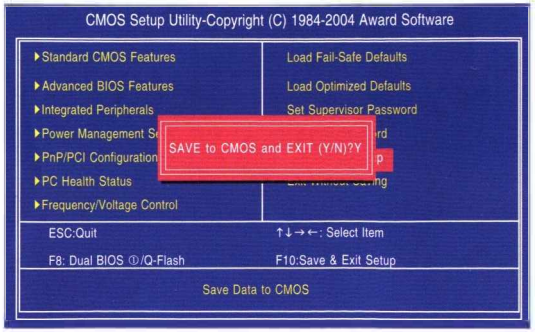
② **Only for GA-8IPE775-G**

14-4 Save & Exit Setup



To save / exit the BIOS setting screen press F10, and press "Y" if you want to save the setting. By typing "N" or "ESC", this will take you back to setup screen.

① **Only for GA-8IPE775 Pro**

STEP 15 : Installing Drivers

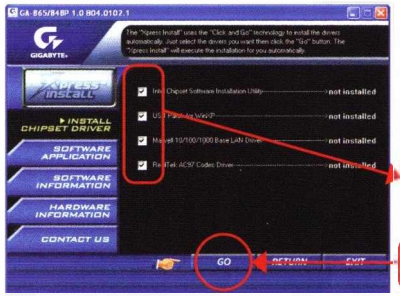
Picture below are shown in Windows XP

After your OS is installed correctly and running properly, it is time to install drivers. Insert the driver CD-title that came with your motherboard into your CD-ROM drive, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the setup.exe.

INSTALL CHIPSET DRIVER

This page show the drivers that need to be installed for the system. Click each item to install the driver manually or switch to the Xpress Install to install the driver automatically.

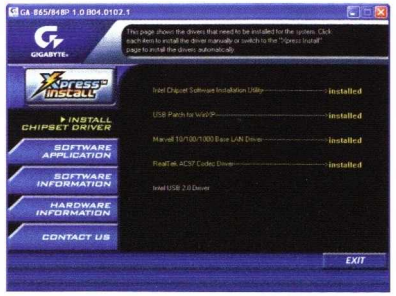
The "Xpress Install" uses the"Click and Go" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The Xpress Install will finish the installation for you by itself.



Massage:Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers.

We recommend that you install all components in the list

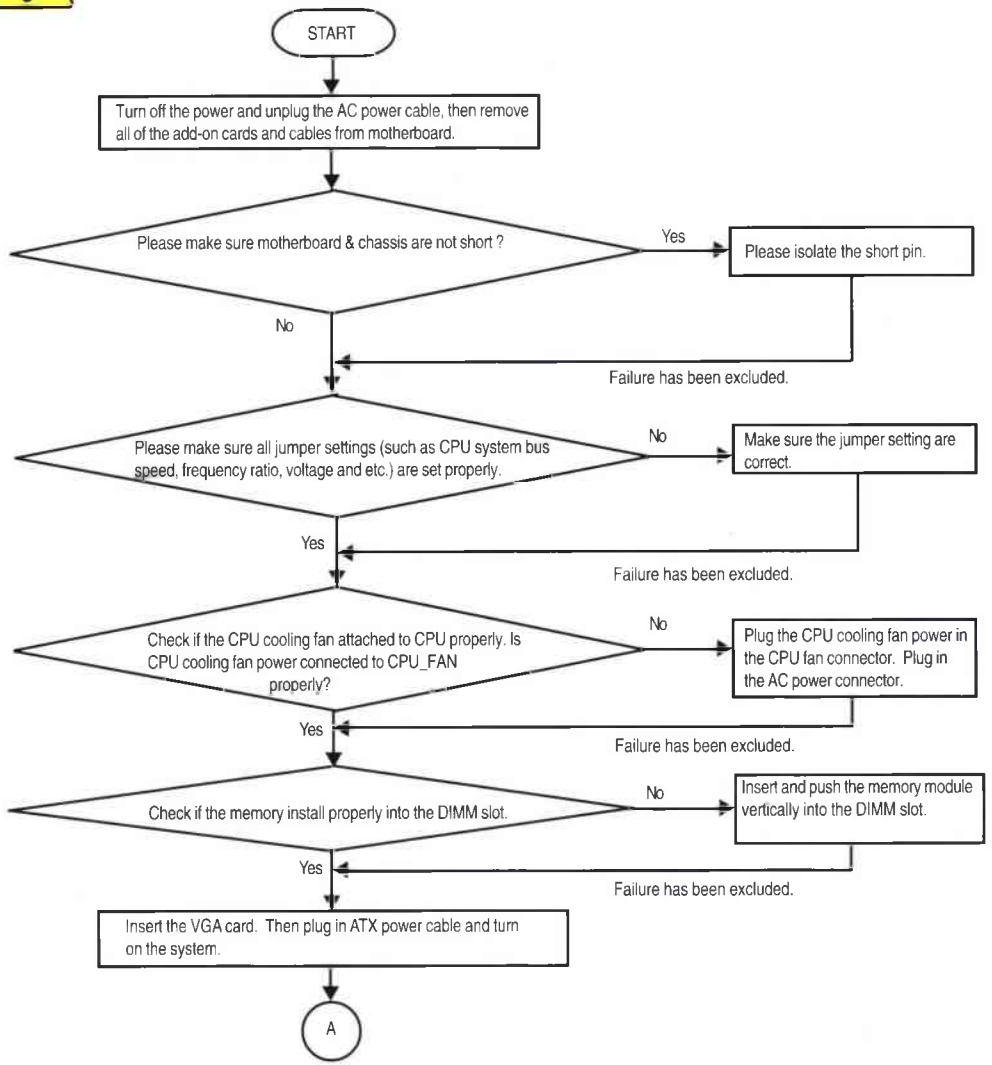
Click "GO".

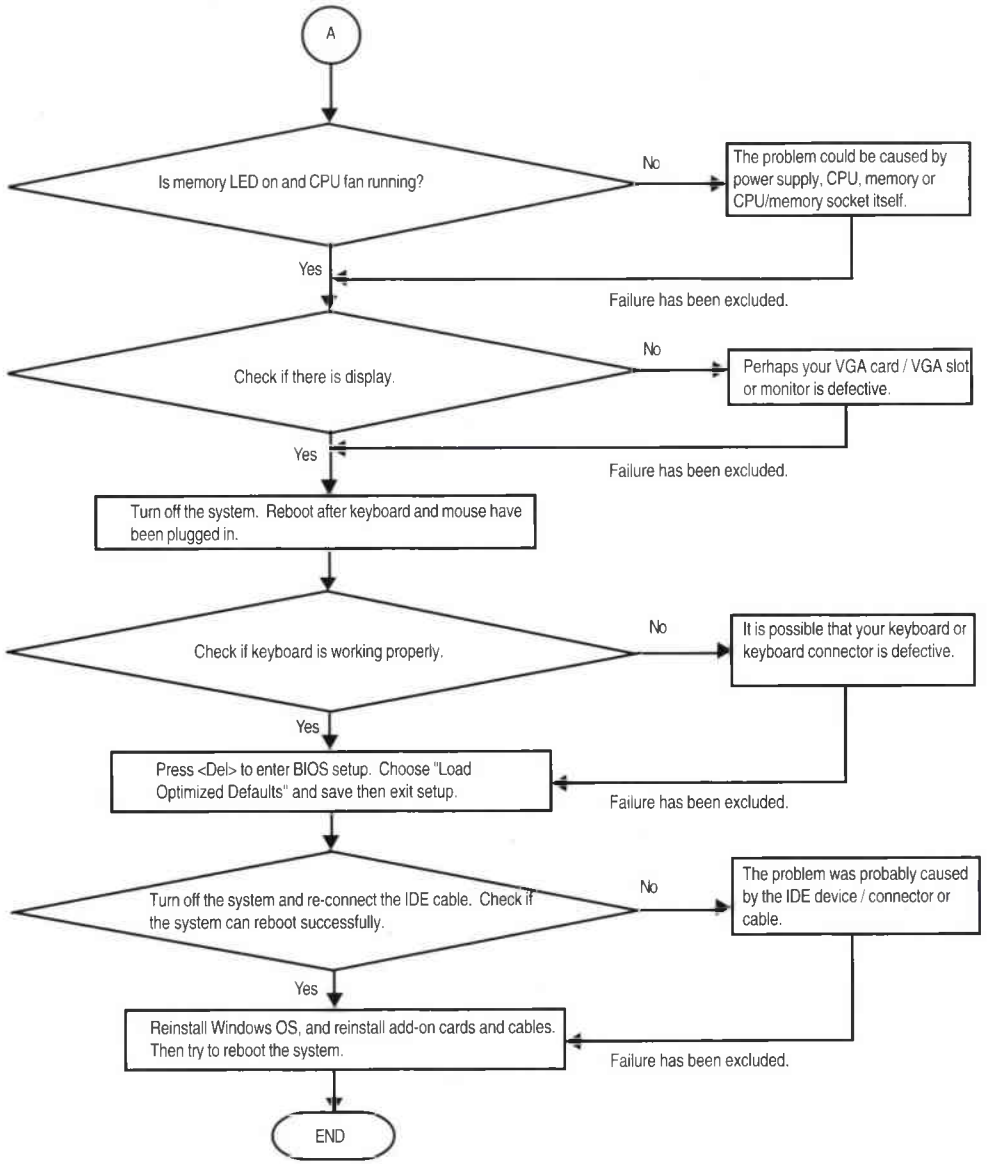


Driver install finished!! you have to reboot system!!

STEP 16 : Troubleshooting

If you encounter any trouble during boot up, please follow the troubleshooting procedures .


START
Turn off the power and unplug the AC power cable, then remove all of the add-on cards and cables from motherboard.
Please make sure motherboard & chassis are not short ?
Yes
Please isolate the short pin.
No
Failure has been excluded.
Please make sure all jumper settings (such as CPU system bus speed, frequency ratio, voltage and etc.) are set properly.
No
Make sure the jumper setting are correct.
Yes
Failure has been excluded.
Check if the CPU cooling fan attached to CPU properly. Is CPU cooling fan power connected to CPU_FAN properly?
No
Plug the CPU cooling fan power in the CPU fan connector. Plug in the AC power connector.
Yes
Failure has been excluded.
Check if the memory install properly into the DIMM slot.
No
Insert and push the memory module vertically into the DIMM slot.
Yes
Failure has been excluded.
Insert the VGA card. Then plug in ATX power cable and turn on the system.
A


A
Is memory LED on and CPU fan running?
No
The problem could be caused by power supply, CPU, memory or CPU/memory socket itself.
Yes
Failure has been excluded.
Check if there is display.
No
Perhaps your VGA card / VGA slot or monitor is defective.
Yes
Failure has been excluded.
Turn off the system. Reboot after keyboard and mouse have been plugged in.
Check if keyboard is working properly.
No
It is possible that your keyboard or keyboard connector is defective.
Yes
Press <Del> to enter BIOS setup. Choose "Load Optimized Defaults" and save then exit setup.
Failure has been excluded.
Turn off the system and re-connect the IDE cable. Check if the system can reboot successfully.
No
The problem was probably caused by the IDE device / connector or cable.
Yes
Reinstall Windows OS, and reinstall add-on cards and cables. Then try to reboot the system.
Failure has been excluded.
END

If the above procedure unable to solve your problem, please contact with your local retailer or national distributor for help. Or, you could submit your question to the service mail via Gigabyte website technical support zone (http://www.gigabyte.com.tw). The appropriate response will be provided ASAP.